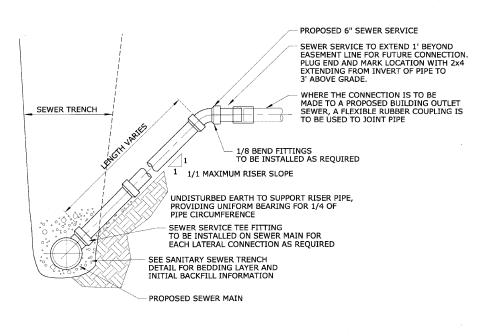
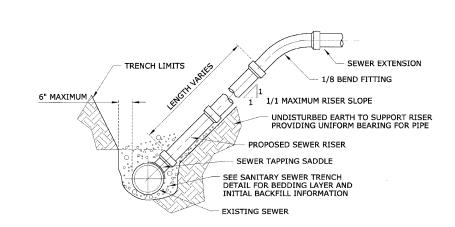


TOTAL SHEET SHEETS No. SECTION COUNTY соок STA. TO STA. 2315 Enterprise Drive - Suite 102 Westchester, IL 60154-5811 708-492-1000 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

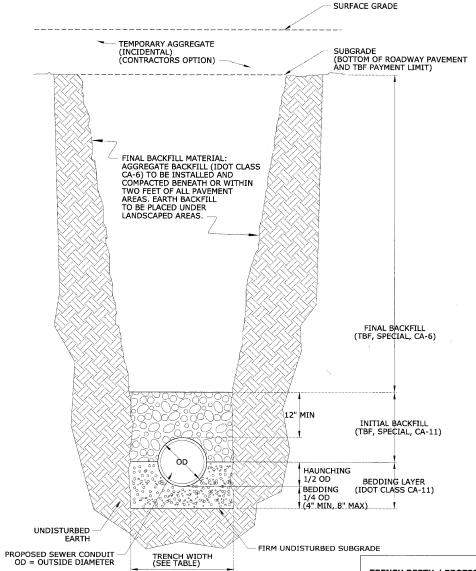
CONTRACT No. 63149



SEWER SERVICE TEE AND RISER



TAPPED SEWER SERVICE AND RISER



SEWER TRENCH DETAIL

MAXIMUM PAYMENT WIDTH TRENCH DEPTH / PROTECTION 5 FT AND LESS, W/O PROTECTION OD + 18" 5 FT AND LESS, W/ PROTECTION OD + 36" GREATER THAN 5 FT OD + 36"

BACKFILL WITH EARTH OR AGGREGATE MATERIAL AS SPECIFIED TRENCH LIMITS AS SPECIFIED EXISTING SEWER TO BE REPLACED ACROSS WATERMAIN TRENCH WITH DUCTILE IRON PIPE. A MINIMUM CLEARANCE OF 12" TO BE MAINTAINED BETWEEN THE WATERMAIN AND AND THE SEWER. SEWER REPLACEMENT TO EXTEND A MINIMUM OF 10 FEET EITHER SIDE OF THE WATERMAIN. FLEXIBLE COUPLINGS TO BE USED TO JOIN THE SEWER PIPE. CENTERLINE WATER MAIN 10' MIN FLEXIBLE COUPLINGS TO BE INSTALLED AS REQUIRED (INCIDENTAL) EXISTING SEWER PIPE DUCTILE IRON PIPE PROPOSED WATER MAIN -COARSE AGGREGATE, IDOT CLASS CA-6, TO BE INSTALLED AS BACKFILL AT ALL SEWER CROSSINGS. PLACED MATERIAL TO BE TAMPED AND COMPACTED TO SUPPORT SEWER.

SURFACE GRADE

SEWER CROSSING DETAIL

ILLINOIS DEPARTMENT OF TRANSPORTATION **BLUFF AVENUE IMPROVEMENTS** STAGE 2 **CONSTRUCTION DETAILS - SPECIAL**

SCALE: NTS

DATE 02/27/2009 CHECKED BY PFH